



Description of WO2004113199

[Print](#)[Copy](#)[Contact Us](#)[Close](#)

Result Page

Notice: This translation is produced by an automated process; it is intended only to make the technical content of the original document sufficiently clear in the target language. This service is not a replacement for professional translation services. The esp@cenet® Terms and Conditions of use are also applicable to the use of the translation tool and the results derived therefrom.

< Desc/Cims PAGE NUMBER 1>

Tablet donor to the single delivery of tablets technical field the invention refers to tablet donor to the single delivery of Tablet ten with a prismatic housing and with an underground storage for the tablets in form of a housing insert, which exhibits an housing bottom interspersing output chute with a lateral expenditure opening and against the force of a single clamped leaf spring notice-limited toward the Ausga beschachtes from a rest position into an expenditure position is more slidable.

State of the art to the output of separated tablets are tablet donors known (WHERE 99/07621 A1), who consist an underground storage of a prismatic housing with formed a housing insert for tablets, which possesses one against the housing soil managing output chute and against the force of a spring toward the output chute between a rest position and an expenditure position displaced can become, in that the output chute the housing bottom penetrated, so that an expenditure opening of the front closed expenditure of pit manages to the tablet withdrawal over the housing bottom. If the housing insert becomes released, then it becomes by the spring into the rest position backmoved, in which the output chute with its closed face locks the passage opening planned for it in the housing bottom. The spring is formed as leaf spring, which is integral with the housing insert made existing from plastic and pushes away with its free end at the bottom of the going outer of ses. In order to secure a safe filling of the output chute from the supply area, is a side wall of the underground storage bottom formation of a sloping shoulder remote, against which a housing bar manages. With one

< Desc/Cims PAGE NUMBER 2>

Displacement of the housing insert to the tablet withdrawal accumulates the sloping shoulder on the housing bar, whereby the side wall of the use with the effect elastic, subsequent to the shoulder, is imprinted that Brük kenbildungen in the region of the tablet accumulation in the underground storage are prevented and a troublefree refill of the output chute ensured become can. Adverse one with this construction of a tablet donor is all of thing that with the tablet withdrawal tablets can slide easily in the expenditure pit, so that the single delivery is endangered. In addition the conditional elasticity necessary for the loosening of the tablets in the underground storage mindest side wall of the housing insert one comparatively gerin ge wall thickness, those the stability of the housing insert and its life an impaired.

Illustration of the invention of the invention is thus the basis the object to out-arrange a tablet donor of in of course in such a way described type that a safe sort of the tablets can become ensured, with a stable construction.

The invention solves the object posed by the fact that the leaf spring is on the one hand supported over the clamped end and on the other hand over an elbow section between the housing and the housing insert and that at the elbow off cut subsequent free end of the sheet feather/spring directed against the output chute in the expenditure position of the housing insert by a depressing drinking nung wake barrier for the tablets, engaging into the output chute, forms.

Since moved by the support, of the single clamped leaf spring planned between the housing and the housing insert over an elbow section the free leaf spring end subsequent to this elbow section becomes with a publishing house rung the housing insert the tablet withdrawal transverse to the adjustment direction of the housing insert, this movement of the free end can serve the sheet feather/spring in simple manner as wake barrier for the tablets, if it is directed against the output chute and with a movement of the housing

< Desc/Cims PAGE NUMBER 3>

employment against the housing bottom by a passage opening in the output chute intervenes. The wake barrier formed by the free leaf spring end locks thus the output chute above the tablet which can be delivered against a Nachgleiten of tablets, which brings the desired safety for a single delivery of the tablets with itself. If the housing insert becomes released after a tablet withdrawal, then it is moved backward by the leaf spring into the Ausgangsstel lung, whereby the free end of the leaf spring becomes again withdrawn by the passage opening from the output chute.

In order to be able to give for the free end of the leaf spring constructionally a travel path, it is advisable to plan for the free end of the leaf spring a Führungssteg of the housing insert subsequent to the passage opening in the output chute so that advanced at this Führungssteg lying close leaf spring end becomes along the Führungssteges by the passage opening into the output chute, if becomes loaded due to the operation of the housing insert the elbow section of the leaf spring in the sense of an elbow flattening.

If the guide surface of the Führungssteges for the free end of the leaf spring is interrupted by a recess, then free spring end can become on the housing insert an impact load applied over, as soon as the free leaf spring EN de slides in trains of the sliding movement along the guide surface of the Führungssteges over the recess and at short notice into this recess engages.

This impact load of the housing insert a conditional loosening of the tablets located in the underground storage of the housing insert, which arrive thus troublefree at the output chute.

From the function the leaf spring can become both the housing and the housing insert associated and push away with its elbow section either at the housing insert or at the housing bottom. It is advisable to paths of the simpler manufacture however that the leaf spring clamped at the housing insert pushes away with the elbow section at the housing bottom.

Since with the fact calculated must become that the leaf spring end a tablet from the shaft, penetrating by the passage opening into the output chute

< Desc/Cims PAGE NUMBER 4>

against the underground storage displaced, can be the free end of the leaf spring advantage detention to a locking head thickened, which provides for a careful application of the tablets which can be displaced. In addition the locking head with a nose managing against the guide surface of the Führungssteges can become formed, which provides for an effective impact load of the housing insert when engaging into the recess of the Führungssteges.

Brief description of the drawing in the drawing is the invention article for example shown. Fig show. 1 a tablet donor according to invention in rest position in an en longitudinal section, Fig einfachten. 2 after tablet donor the Fig. 1 in a section after the line 11-11 the Fig. 1 and Fig. 3 one the Fig. 1 corresponding illustration of the tablet donor, however in the expenditure position.

Path to the embodiment of the invention the represented tablet donor exhibits an housing 1 prismatic in its basic shape, whose bottom with 2 designated is. From that the bottom 2 against u berliegenden, open face of the housing 1 is into the housing a housing employment 3 inserted, which forms an underground storage 4 to the receptacle of tablets.

⌕ top The bottom 5 of this underground storage 4 drops to a lateral output chute 6, which manages 2 against the housing bottom, is by an end wall 7 downward sealed and intervenes into a passage opening 8 in the bottom 2 of the housing 1. The housing insert 3 is in the region of the subsequent wall

9 of the housing front to the passage opening 8 1 open and can by this opening with tablets filled become, before the housing insert 3 becomes 1 inserted into the housing.

< Desc/ Clms PAGE NUMBER 5>

To the housing insert 3 opposite wall is a leaf spring 10 formed to those the employment opening, whose free end is to a locking head 11 thickened.

Between the locking head 11 and the end of the leaf spring 10 material-conclusively connected with the housing insert 3 this forms an elbow section 12, over which the housing insert 3 at the bottom pushes 2 away of the housing 1. The closing head 11 of the free leaf spring end lies close to that with a nose 13 a guide surface of a Führungssteiges 14, from a passage opening 15 for the locking head 11 in that the leaf spring 10 to course-turned wall of the output chute 6 goes out.

Becomes the housing insert from in the Fig. 1 and 2 represented rest position, 1 secured in which the housing insert 3 is over a resilient rest hook 16 against taking off from the housing, against the force of the leaf spring 10 into the expenditure position after the Fig. 3 displaced, then the elbow section 12 of the leaf spring 10 with the effect flat-pressed becomes the fact that the locking head 11 with the nose 13 slides along the Führungssteiges 14, until the locking head seizes 11 by the Durchtritts opening 15 into the output chute 6 and forms a wake barrier for the tablets from the underground storage 4. Since the arrangement is so met the fact that with the engagement of the locking head only a single tablet between the end wall 7 and the locking head 11 11 into the output chute 6 can be is over the locking head 11 ensured that only in each case a single tablet can become from the output chute 6 removed, like this in the Fig. 3 by the dash-dotted suggested tablet 17 indicated is. This tablet 17 can become by the lateral open output chute 6 removed. After the Tablettenent would take the housing insert 3 over the relaxing leaf spring 10 into the rest position is moved backward, whereby the locking head 11 at the free end of the leaf spring becomes 10 by the passage opening 15 the output chute 6 withdrawn.

In order to make a loosening possible of the tablets in the underground storage 4 and Brük kenbildungen within the tablet accumulation to avoid, are in the region of the guide surface of the Führungssteiges 14 a recess 18 provided, over those the nose 13 of the locking head 11 and short term engaging hinwegge

< Desc/ Clms PAGE NUMBER 6>

leads becomes. This short term engaging of the nose 13 into the recess 18 of the Führungssteiges 14 a conditional impact load for the housing insert 3 with the desired succession that the tablets in the underground storage 4 are loosened up and troublefree into the output chute 6 to slide.